

I claim:

Sub A' 1. A printing machine having at least one roller and at least a first and a second functional element for executing cyclic movements synchronized with a rotational movement of the roller and driven, together with the roller, by a drive unit, comprising spring elements, respectively, assigned to the functional elements, said spring elements being stressed in one phase of the cyclic movement and relieved of stress in another phase of the cyclic movement, a respective phase wherein a first one of said spring elements is stressed being synchronized with a respective phase wherein a second one of said spring elements is relieved of stress.

2. The printing machine according to claim 1, including a cam disk for aiding in coupling the cyclic movement of each of the functional elements to the rotational movement of the roller.

3. The printing machine according to claim 1, wherein at least one of the functional elements is a sheet gripper mounted on the roller.

4. The printing machine according to claim 1, including another roller, at least one of the functional elements being a sheet gripper mounted on said other roller.

5. The printing machine according to claim 1, wherein a first one of the functional elements is a sheet gripper mounted on a feed cylinder, and a second one of the functional elements is a sheet gripper mounted on an impression cylinder.

6. The printing machine according to claim 5, wherein a position for accepting a sheet to be printed from the feed cylinder and a position for surrendering the printed sheet are defined on said impression cylinder and, on a path from said surrender position to said acceptance position, said sheet gripper of said impression cylinder is actuatable for executing one of a movement stressing said spring element assigned thereto and a movement relieving said stress, while said sheet gripper of said feed cylinder is actuatable for executing one of a closing movement relieving the stress on said spring element assigned thereto and a closing movement stressing said spring element.

7. The printing machine according to claim 6, wherein said impression cylinder has a circumference that is a given number of times the circumference of said feed cylinder and includes a number equal to said given number of said sheet grippers rotating with said impression cylinder.

8. The printing machine according to claim 6, wherein said surrender position is defined so that the length of said path

9. The printing machine according to claim 6, wherein the movement of said sheet gripper of said impression cylinder is a closing movement for passing through a bottleneck.

10. The printing machine according to claim 1, including another first functional element formed as a pregripper.

Add  $C^2$

Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099
1980	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099